

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
April 2004

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Governor
State of California

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Secretary for Resources
The Resources Agency

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State of California
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MONTHLY HIGHLIGHTS

The following highlights are activities or actions that impacted State Water Project operations during the month of April 2004.

Statewide precipitation was 90 percent of average for the 2003-2004 water year through April. Statewide runoff was 90 percent of average for the water year through April. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the internet at: "http://cdec.water.ca.gov/snow_rain.html".

On April 30, total storage in major SWP reservoirs was about 4.65 MAF, compared with about 4.65 MAF at this time in 2003. The average storage in the major SWP reservoirs at the end of April was about 4.4 MAF. End of month storage at Lake Oroville was about 3.05 MAF as compared to 3.07 MAF last year. The State's share of San Luis Reservoir storage was about 939 TAF, as compared with 920 TAF at this time last year. The end of month combined storage in our southern reservoirs was about 664 TAF, compared with about 658 TAF at this time last year.

Through April, SWP water deliveries for 2004 were about 1.05 MAF. This is a combination of project, transfer, and exchange waters. This was about 245 TAF more than that delivered during the same period in 2003.

Antelope Lake reached capacity and started to spill on April 2. Spill continued through the rest of the month amassing a total of 4,219 AF.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

April 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Mar 31	5001.63	22,222									
1	5001.84	22,416	194	10	0	0	0	5	15	113	
2	5002.05	22,611	195	10	0	0	1	5	16	114	
3	5002.26	22,806	195	10	0	0	16	5	31	129	
4	5002.46	22,994	188	10	0	0	40	5	55	150	
5	5002.63	23,153	159	10	0	0	66	5	81	161	
6	5002.73	23,248	95	10	0	0	83	5	98	146	
7	5002.79	23,305	57	10	0	0	94	5	109	138	
8	5002.84	23,352	47	10	0	0	104	5	119	143	
9	5002.86	23,371	19	10	0	0	108	5	123	133	
10	5002.85	23,361	-10	10	0	0	106	5	121	116	
11	5002.84	23,352	-9	10	0	0	104	5	119	114	
12	5002.84	23,352	0	10	0	0	104	5	119	119	
13	5002.78	23,295	-57	10	0	0	89	5	104	75	
14	5002.76	23,276	-19	10	0	0	89	5	104	94	
15	5002.74	23,257	-19	10	0	0	85	5	100	90	
16	5002.70	23,219	-38	10	0	0	78	5	93	74	
17	5002.66	23,182	-37	10	0	0	71	5	86	67	
18	5002.63	23,153	-29	10	0	0	66	5	81	66	
19	5002.61	23,135	-18	10	0	0	62	5	77	68	
20	5002.60	23,125	-10	10	0	0	61	5	76	71	
21	5002.64	23,163	38	10	0	0	67	5	82	101	
22	5002.59	23,116	-47	10	0	0	59	5	74	50	
23	5002.58	23,106	-10	10	0	0	58	5	73	68	
24	5002.62	23,144	38	10	0	0	64	5	79	98	
25	5002.64	23,163	19	10	0	0	67	5	82	92	
26	5002.68	23,201	38	10	0	0	74	5	89	108	
27	5002.72	23,238	37	10	0	0	81	5	96	115	
28	5002.72	23,238	0	10	0	0	81	5	96	96	
29	5002.66	23,182	-56	10	0	0	71	6	87	59	
30	5002.70	23,219	37	5	0	0	78	6	89	108	
Total cfs-days				- - -	295	0	0	2,127	152	2,574	
Total ac-ft				997	585	0	0	4,219	301	5,105	
										3,076	
										6,102	

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

April 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow	
				Regulated Release			Spill	Estimated Evaporation And Seepage		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Mar 31	5570.63	32,070								
1	5570.77	32,227	157	2	0	0	0	3	5	
2	5570.81	32,272	45	2	0	0	0	3	5	
3	5570.87	32,339	67	2	0	0	0	3	5	
4	5570.97	32,452	113	2	0	0	0	3	5	
5	5571.05	32,543	91	2	0	0	0	3	5	
6	5571.17	32,679	136	2	0	0	0	4	6	
7	5571.24	32,758	79	2	0	0	0	4	6	
8	5571.31	32,838	80	2	0	0	0	4	6	
9	5571.40	32,940	102	2	0	0	0	4	6	
10	5571.41	32,952	12	2	0	0	0	4	6	
11	5571.49	33,043	91	2	0	0	0	4	6	
12	5571.53	33,089	46	2	0	0	0	4	6	
13	5571.57	33,135	46	1	10	0	0	4	15	
14	5571.59	33,158	23	0	16	0	0	4	20	
15	5571.60	33,169	11	0	16	0	0	4	20	
16	5571.68	33,261	92	0	14	0	0	0	14	
17	5571.69	33,272	11	0	12	0	0	4	16	
18	5571.68	33,261	-11	0	12	0	0	4	16	
19	5571.68	33,261	0	0	12	0	0	4	16	
20	5571.67	33,249	-12	0	12	0	0	4	16	
21	5571.71	33,295	46	0	13	0	0	0	13	
22	5571.70	33,284	-11	0	14	0	0	4	18	
23	5571.71	33,295	11	0	18	0	0	4	22	
24	5571.67	33,249	-46	0	20	0	0	4	24	
25	5571.63	33,204	-45	0	20	0	0	4	24	
26	5571.65	33,226	22	0	37	0	0	0	37	
27	5571.56	33,123	-103	0	57	0	0	4	61	
28	5571.51	33,066	-57	0	63	0	0	0	63	
29	5571.38	32,918	-148	0	78	0	0	4	82	
30	5571.20	32,713	-205	0	84	0	0	20	104	
Total cfs-days				---	25	508	0	0	115	
Total ac-ft				643	50	1,008	0	0	228	
									1,285	
									1,928	

Table 3. Lake Davis

Daily Operation
(in acre-feet except as noted)

Capacity: 84,371 ac-ft

April 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Mar 31	5765.67	51,306									
1	5765.74	51,520	214	10	0	0	0	10	20	128	
2	5765.76	51,581	61	10	0	0	0	10	20	51	
3	5765.79	51,673	92	10	0	0	0	10	20	66	
4	5765.84	51,826	153	10	0	0	0	10	20	97	
5	5765.90	52,010	184	10	0	0	0	10	20	113	
6	5765.95	52,164	154	10	0	0	0	10	20	98	
7	5765.97	52,225	61	10	0	0	0	10	20	51	
8	5766.00	52,318	93	10	0	0	0	10	20	67	
9	5766.03	52,411	93	10	0	0	0	10	20	67	
10	5766.04	52,441	30	10	0	0	0	10	20	35	
11	5766.06	52,503	62	10	0	0	0	10	20	51	
12	5766.08	52,565	62	10	0	0	0	10	20	51	
13	5766.08	52,565	0	10	0	0	0	10	20	20	
14	5766.08	52,565	0	10	0	0	0	10	20	20	
15	5766.12	52,689	124	10	0	0	0	10	20	83	
16	5766.13	52,720	31	10	0	0	0	10	20	36	
17	5766.15	52,782	62	10	0	0	0	10	20	51	
18	5766.16	52,813	31	10	0	0	0	10	20	36	
19	5766.15	52,782	-31	10	0	0	0	10	20	4	
20	5766.16	52,813	31	10	0	0	0	10	20	36	
21	5766.20	52,937	124	10	0	0	0	11	21	84	
22	5766.20	52,937	0	10	0	0	0	11	21	21	
23	5766.19	52,906	-31	10	0	0	0	11	21	5	
24	5766.18	52,875	-31	10	0	0	0	11	21	5	
25	5766.18	52,875	0	10	0	0	0	11	21	21	
26	5766.17	52,844	-31	10	0	0	0	11	21	5	
27	5766.16	52,813	-31	10	0	0	0	11	21	5	
28	5766.16	52,813	0	10	0	0	0	11	21	21	
29	5766.16	52,813	0	10	0	0	0	11	21	21	
30	5766.15	52,782	-31	10	0	0	0	11	21	5	
Total cfs-days				---	300	0	0	310	610	1,354	
Total ac-ft				1,476	595	0	0	615	1,210	2,686	

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

April 2004

Capacity: 3,537, 580 ac-ft

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow					Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal	Evaporation 2/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 3/
Mar 31	868.62	3,066,010								
	1	869.13	3,073,293	7,283	8,082	6	116	0	8,204	0
	2	869.39	3,077,011	3,718	10,195	6	297	0	10,498	0
	3	869.85	3,083,596	6,585	6,387	6	206	0	6,599	0
	4	870.33	3,090,478	6,882	7,423	6	176	0	7,605	0
	5	869.91	3,084,456	-6,022	18,806	6	130	0	18,942	0
	6	869.72	3,081,734	-2,722	17,581	6	137	0	17,724	0
	7	868.95	3,070,721	-11,013	24,743	6	152	0	24,901	0
	8	868.16	3,059,451	-11,270	25,267	10	190	0	25,467	0
	9	867.58	3,051,195	-8,256	22,948	10	167	0	23,125	0
	10	867.50	3,050,058	-1,137	15,631	10	288	0	15,929	0
	11	868.10	3,058,596	8,538	7,269	10	371	0	7,650	0
	12	867.96	3,056,602	-1,994	14,414	10	129	0	14,553	0
	13	867.54	3,050,627	-5,975	19,719	10	273	0	20,002	0
	14	866.94	3,042,104	-8,523	21,749	7	159	0	21,915	0
	15	866.53	3,036,290	-5,814	20,531	7	144	0	20,682	0
	16	865.81	3,026,099	-10,191	20,116	7	173	0	20,296	0
	17	865.48	3,021,436	-4,663	17,301	6	151	0	17,458	0
	18	864.98	3,014,380	-7,056	17,181	6	75	0	17,262	0
	19	864.75	3,011,139	-3,241	14,447	6	68	0	14,521	0
	20	864.85	3,012,548	1,409	12,504	6	38	0	12,548	0
	21	865.00	3,014,663	2,115	11,669	6	15	0	11,690	0
	22	865.85	3,022,001	7,338	6,701	6	128	0	6,835	1,497
	23	865.87	3,026,947	4,946	8,312	6	294	0	8,612	1,928
	24	866.61	3,037,424	10,477	2,395	6	234	0	2,635	0
	25	867.34	3,047,784	10,360	3,867	6	242	0	4,115	2,677
	26	867.28	3,046,932	-852	11,659	6	288	0	11,953	0
	27	867.66	3,052,333	5,401	10,790	14	386	0	11,190	0
	28	867.66	3,052,333	0	14,252	26	273	0	14,551	0
	29	867.50	3,050,058	-2,275	13,485	26	356	0	13,867	0
	30	867.41	3,048,779	-1,279	12,491	26	356	0	12,873	0
Total				-17,231	417,915	275	6,012	0	424,202	6,102
400,869										

1/ Includes bypass flows

2/ Evaporation will be zero for days when there is precipitation or heavy overcast.

3/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Daily Operation

(in acre-feet except as noted)

April 2004

Capacity: 25,120 ac-ft

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County 4/	Thermalito Irrigation District	Releases To River 5/	Hyatt Powerplant Pumpback	
Mar 31	23,735										
1	24,234	499	8,082	508	0	6,931	6	6	1,251	0	103
2	24,295	61	10,195	506	0	9,492	6	6	1,257	0	121
3	24,203	-92	6,387	506	0	5,734	6	6	1,257	0	18
4	23,506	-697	7,423	504	0	7,386	6	6	1,267	0	41
5	22,636	-870	18,806	484	0	19,209	6	6	1,275	0	336
6	21,272	-1,364	17,581	506	0	18,528	6	6	1,279	0	368
7	22,586	1,314	24,743	506	0	22,838	6	6	1,265	0	180
8	23,421	835	25,267	506	0	23,850	6	6	1,269	0	193
9	23,232	-189	22,948	504	0	22,578	6	6	1,267	0	216
10	24,324	1,092	15,631	504	0	14,025	6	6	1,265	0	259
11	24,137	-187	7,269	504	0	6,720	6	6	1,273	0	45
12	23,633	-504	14,414	504	0	14,211	6	6	1,275	0	76
13	23,581	-52	19,719	504	0	19,142	6	6	1,275	0	154
14	22,995	-586	21,749	494	0	21,698	6	6	1,275	0	156
15	23,070	75	20,531	500	0	19,884	6	6	1,281	0	221
16	23,108	38	20,116	488	0	19,390	6	7	1,259	0	96
17	23,135	27	17,301	506	0	16,666	6	7	1,263	0	162
18	23,675	540	17,181	506	0	16,009	6	7	1,261	0	136
19	23,146	-529	14,447	506	0	14,441	6	7	1,261	0	233
20	23,762	616	12,504	506	0	11,218	6	7	1,265	0	102
21	23,833	71	11,669	216	0	10,750	6	7	1,267	0	216
22	23,214	-619	6,701	307	1,394	6,780	7	7	1,265	1,497	535
23	22,851	-363	8,312	506	2,200	8,458	7	7	1,263	1,928	282
24	23,259	408	2,395	506	718	1,554	7	7	1,269	0	-374
25	23,988	729	3,867	506	2,984	2,950	7	7	1,265	2,677	278
26	23,751	-237	11,659	504	0	11,790	7	7	1,259	0	663
27	23,271	-480	10,790	504	0	10,132	7	7	1,263	0	-365
28	23,786	515	14,252	504	0	12,882	7	7	1,261	0	-84
29	23,616	-170	13,485	504	0	12,873	7	7	1,261	0	-11
30	22,749	-867	12,491	470	0	12,623	7	7	1,261	0	70
Total		-986	417,915	14,579	7,296	400,742	189	195	37,974	6,102	4,426

1/ Sum of Thermalito Forebay and Diversion Pool.

4/ Includes 1 AF of recreation water to Lime Saddle Marina from Del Oro WD and 188 AF to Cal Water.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

5/ The sum of the flows from fish barrier dam and the fish hatchery.

3/ Includes Bypass flows at Thermalito.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

April 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow	Outflow						Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Mar 31	134.59	49,073											
	1	135.27	51,850	2,777	6,931	0	0	0	0	3,769	0	-385	5,020
	2	136.20	55,756	3,906	9,492	0	0	0	0	5,217	0	-369	6,474
	3	135.47	52,680	-3,076	5,734	0	0	0	0	8,727	0	-83	9,984
	4	134.24	47,671	-5,009	7,386	0	0	0	0	12,714	0	319	13,981
	5	134.78	49,842	2,171	19,209	0	0	0	0	16,880	0	-158	18,155
	6	134.07	46,997	-2,845	18,528	0	0	0	0	20,827	0	-546	22,106
	7	133.72	45,619	-1,378	22,838	295	0	0	0	23,802	0	-119	25,067
	8	133.63	45,267	-352	23,850	397	0	0	0	23,604	0	-201	24,873
	9	133.79	45,893	626	22,578	393	0	0	0	21,223	0	-336	22,490
	10	132.28	40,146	-5,747	14,025	438	0	0	0	19,141	0	-193	20,406
	11	129.12	29,290	-10,856	6,720	438	0	0	0	17,118	0	-20	18,391
	12	128.91	28,625	-665	14,211	555	0	101	234	13,646	0	-340	14,921
	13	130.34	33,291	4,666	19,142	785	0	187	351	12,754	0	-399	14,029
	14	132.03	39,229	5,938	21,698	835	0	335	417	14,142	0	-31	15,417
	15	131.68	37,962	-1,267	19,884	1,097	0	405	545	18,724	0	-380	20,005
	16	131.14	36,045	-1,917	19,390	1,331	0	442	659	18,665	0	-210	19,924
	17	131.13	36,010	-35	16,666	1,565	0	478	734	13,508	0	-416	14,771
	18	132.18	39,778	3,768	16,009	1,636	0	448	789	9,184	0	-184	10,445
	19	133.29	43,951	4,173	14,441	1,743	0	434	839	7,200	0	-52	8,461
	20	133.78	45,854	1,903	11,218	2,003	0	381	887	5,732	0	-312	6,997
	21	134.33	48,030	2,176	10,750	2,222	0	355	948	4,741	0	-308	6,008
	22	133.74	45,697	-2,333	6,780	2,321	42	478	1,018	3,749	1,394	-111	5,014
	23	133.35	44,182	-1,515	8,458	2,499	61	524	1,133	3,352	2,200	-204	4,615
	24	131.13	36,010	-8,172	1,554	2,757	61	559	1,303	2,936	718	-1,392	4,205
	25	128.73	28,062	-7,948	2,950	2,975	65	682	1,381	2,539	2,984	-272	3,804
	26	130.01	32,185	4,123	11,790	2,975	61	803	1,484	2,162	0	-182	3,421
	27	130.63	34,277	2,092	10,132	2,995	58	853	1,648	2,142	0	-344	3,405
	28	131.95	38,938	4,661	12,882	3,213	50	859	1,682	2,162	0	-255	3,423
	29	133.16	43,452	4,514	12,873	3,372	40	833	1,704	2,162	0	-248	3,423
	30	134.16	47,353	3,901	12,623	3,550	22	863	1,864	2,162	0	-261	3,423
Total				-1,720	400,742	42,390	460	10,020	19,620	314,684	7,296	-7,992	352,658

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

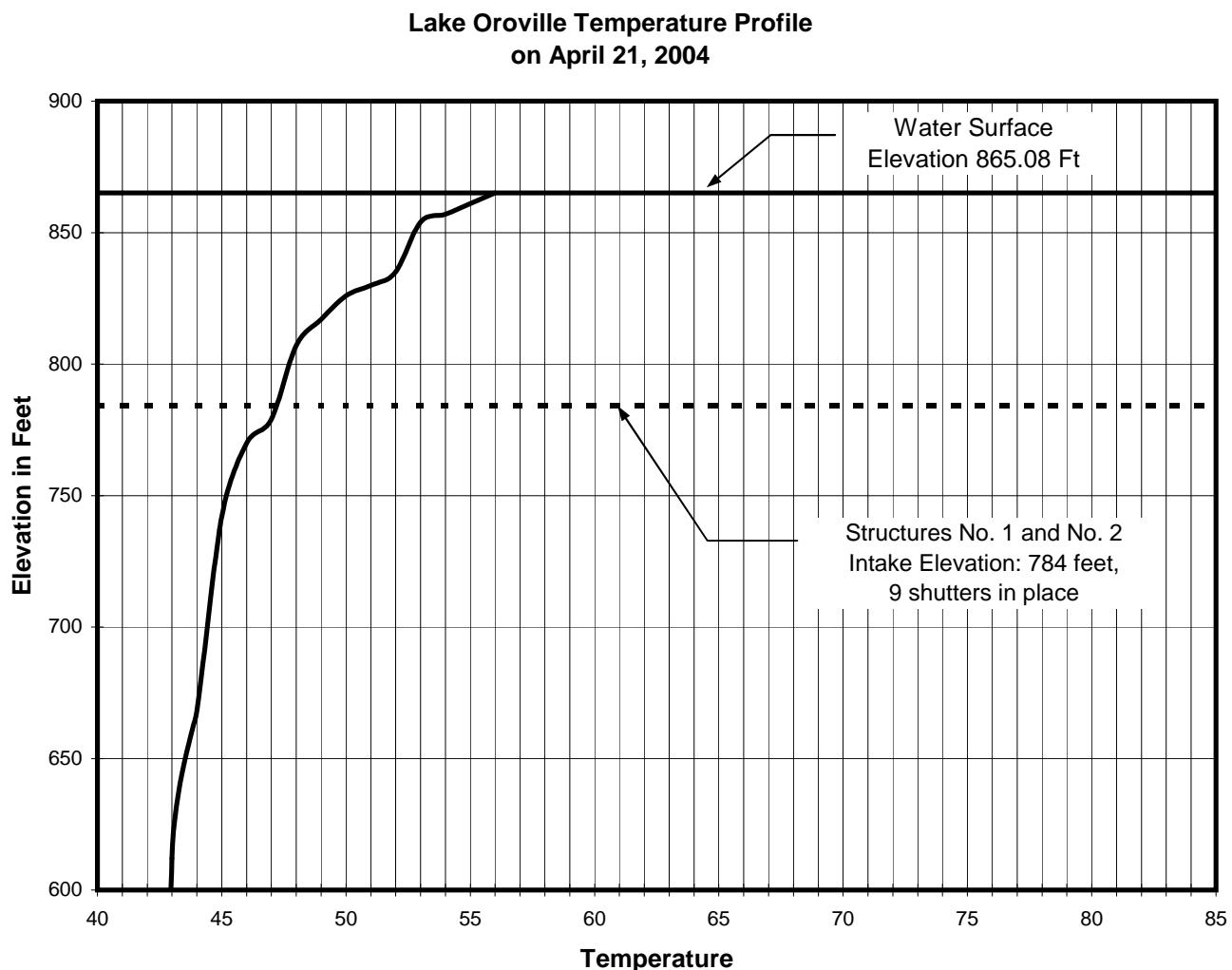
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

April 2004

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	54	49
2	53	49
3	53	50
4	53	49
5	53	49
6	53	49
7	53	50
8	52	50
9	53	49
10	53	50
11	54	49
12	54	49
13	54	49
14	52	49
15	51	49
16	51	51
17	51	50
18	51	50
19	51	49
20	51	50
21	52	50
22	53	51
23	55	51
24	57	52
25	58	52
26	61	52
27	60	51
28	62	51
29	62	51
30	61	50



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

April 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount			Permit	Article 21 Water		
	No.	Structure	Mile			M & I	Benicia	Vallejo				
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	2,339	4	94	54	320	165		
		Travis Surge Tank	8.78									
			8.80	Solano County Water Agency Travis Turnout	148							
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	202							
				Solano County Water Agency Fairfield / Vacaville 42"	485							
			17.00	Solano County Water Agency Central Solano	Stub							
		Cordelia Forebay	21.23									
		Cordelia Pumping Plant & Cordelia Spillway	21.30		1,267							
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	205				61	140		
				Solano County Water Agency Benicia	808							
3B	2	Cordelia Surge Tank	23.33			1	99	142	333	475		
		Creston Surge Tank Connection	25.65									
			26.95	Napa County Flood Control & WCD American Canyon 2	1							
			27.27	Napa County Flood Control & WCD American Canyon 3	0							
		Napa Terminal Tank	27.58	City of Napa	99							
			27.60	Napa County Flood Control & WCD American Canyon 1	154							

Table 9. Delta Field Division Plant Data

(in acre-feet)

April 2004

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	33	34	8,769	8,769	607	207	0	0
2	43	35	7,253	7,253	607	205	0	0
3	30	27	6,855	6,855	607	207	0	0
4	29	24	6,551	6,551	604	201	0	0
5	40	32	7,997	7,997	580	186	0	0
6	48	29	10,257	10,257	425	17	0	0
7	47	27	11,445	11,445	457	0	0	0
8	55	31	4,030	4,030	469	0	0	0
9	68	40	6,828	6,828	419	0	0	0
10	62	46	6,574	6,574	424	0	0	0
11	63	49	6,556	6,556	401	0	0	0
12	69	50	5,831	5,831	417	0	0	0
13	50	29	3,868	3,868	395	0	0	0
14	52	34	2,011	2,011	395	0	0	0
15	97	31	527	527	380	0	0	0
16	83	33	2,920	2,920	418	0	0	0
17	62	32	3,013	3,013	413	0	0	0
18	66	37	0	0	395	0	0	0
19	71	32	2,701	2,701	409	0	0	0
20	70	34	358	358	376	0	0	0
21	76	34	2,886	2,886	420	1	0	0
22	100	33	0	0	547	145	0	0
23	88	31	1,948	1,948	559	136	0	0
24	93	45	3,065	3,065	561	145	0	0
25	104	54	3,087	3,087	563	146	0	0
26	116	56	27	27	596	142	0	0
27	142	66	1,809	1,809	651	152	0	0
28	138	73	2,910	2,910	623	127	0	0
29	168	90	2,950	2,950	638	151	0	0
30	176	99	0	0	660	146	0	0
Total	2,339	1,267	123,026	123,026	15,016	2,314	0	0

Table 10. Clifton Court Forebay

Daily Operation of Gates

April 2004

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1	0:01	13:45	15:45	17:00					9,909
2	1:25	8:42	12:20	14:30	16:45	19:35			8,513
3	2:25	9:15	13:30	15:00	17:30	20:45			6,923
4	3:15	9:45	14:45	16:30	19:15	20:45			6,652
5	3:45	10:50	17:40	21:35					8,328
6	3:30	5:15	8:15	12:22	17:30	---			10,352
7	---	0:45	3:30	6:00	8:45	13:30	17:45	---	11,655
8	---	1:15	4:30	6:45	9:30	13:55	20:15	21:30	3,939
9	0:05	3:50	4:45	7:15	10:00	16:30	21:20	---	6,937
10	---	8:15	11:00	14:45					7,308
11	0:30	9:30	12:00	14:30					5,932
12	0:20	6:30	8:00	11:00	13:15	14:45			5,887
13	1:45	5:35							2,909
14	2:15	4:15							1,946
15	1:00	3:40							482
16	1:45	6:45							2,965
17	2:30	9:30							2,968
18	4:40	6:10							193
19	0:01	1:35	2:55	4:55					1,769
20	0:01	4:45							2,961
21	0:01	5:45	8:30	12:20					2,880
22	0:30	2:20							132
23	0:01	7:00							1,780
24	0:01	7:30							2,957
25	0:01	7:55							2,956
26	0:30	2:17							230
27	0:01	7:30							1,705
28	0:01	7:53							2,960
29	1:45	6:25							2,959
30	3:30	5:15							186
Total inflow for the month in AF:									127,273

Table 11. Governor Edmund G. Brown California Aqueduct
 Delta Field Division, Monthly Deliveries

(In acre-feet)

April 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	USBR	Local	Loan Water	Dry Year Purchase		
	No.	Structure	Mile									
1	1	Banks Pumping Plant	3.32		123,026	2	47					
		South Bay Pumping Plant	4.49	Bethany Reservoir Inlet	15,016							
		Check No. 1	5.95									
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	2							
	2	Check No. 2	12.01			47						
	3		12.47	Musco Olive	47							
		Check No. 3	18.29									
	4		22.16	Tracy Golf & Country Club	0							
		Check No. 4	23.99									
	5	Check No. 5	29.73			54	76	144	57	215		
	6	Check No. 6	34.24									
	7		35.22	Turlock Fruit Company Inflow	0							
		Check No. 7	39.91									
2A	8		42.46	Oak Flat Water District-A	54	54	76	144	57	215		
			42.9	Western Hills WD	76							
			43.81	Oak Flat Water District-B	144							
			44.64	Oak Flat Water District-C	57							
		Check No. 8	45.97									
	9		46.18	Oak Flat Water District-D	215	470	0	0	0	0		
				Oak Flat Totals:	470							
	10	Check No. 9	51.3			4						
	11	Check No. 10	56.86									
	12	Check No. 11	61.4									
			66.14	Veteran's Cemetery	4							
		Check No. 12	66.71		104,800							

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

April 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Table A Amount	Purchase Pool A	Purchase Pool B	Local	Recreation			
	No.	Structure	Mile										
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	15,016	2	2	2	2	2			
			3.17	Granite - Vasco Rd. (Temp.)	0								
			3.18	Oakland Scavenger Zone 7	2								
		Check No. 1	3.91										
2	3	Check No. 2	5.21			1,205	2	2	2	2			
			7.21	Zone 7 Altamont	2								
		Check No. 3	9.49	Zone 7 Patterson Inflow Exchange	0								
4	6			Zone 7 Patterson Project Water	1,205	1,205	51	20	855	855			
		Check No. 4	10.68										
		Check No. 5	12.29										
			13.55	Zone 7 Wente #1	51								
			14.16	Zone 7 Wente #2	0								
			14.31	Ising Project Water	20								
		Check No. 6	14.65										
			14.78	Zone 7 Arroyo Mocho Project Water	855								
		Check No. 7	16.38										
			16.57	Zone 7 Wente #3	0								
			16.69	Zone 7 Norman Nursery	0								
			16.70	Zone 7 Concannon Project Water	15								
5	8	Del Valle Branch Pipeline Junction	18.63	(Pumped into Lake Del Valle)	2,314	15	80	252	13	13			
				(Flow into South Bay Aqueduct)	0								
				Arroyo Valle #1 & #2 Project Water	80								
		Deliveries through Del Valle Branch Pipeline		Arroyo Valle #1 & #2 Inflow Exchange	252								
				Lake Del Valle Recreation	13								
				Zone 7 Wente #5	51								
			19.20	So. Livermore Project	2,019		2,019						
				So. Livermore Inflow Released	0								
				So. Livermore Stored Exchanged	0								
6	7		19.21	Zone 7 - Kalthrof Detjens	73	73	51	252	13	13			
		La Costa Tunnel	22.50	ACWD Vallecitos Project Water	0								
			25.97	City of San Francisco San Antonio	0								
8	8	Mission Tunnel	28.97	ACWD - Bayside 1 & 2 Project Water: Inflow Released Storage Exchange	0 0 1,725	6,470	0 0 1,725	1,725	1,725	1,725			
		Santa Clara Pipeline	35.86	S.C.V.W.D. Meter	6,470								

Table 13. Lake Del Valle

Daily Operation

(in acre-feet except as noted)

Capacity: 77,106 ac-ft

April 2004

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation	Total Outflow	
Mar 31	701.37	38,772									
1	701.70	39,001	229	32	207	0	0	0	10	10	0.00
2	702.02	39,225	224	22	205	0	0	0	3	3	0.00
3	702.32	39,435	210	22	207	0	0	0	19	19	0.00
4	702.62	39,646	211	19	201	0	0	0	9	9	0.00
5	702.90	39,844	198	22	186	0	0	0	10	10	0.00
6	702.91	39,851	7	0	17	0	0	0	10	10	0.00
7	702.93	39,865	14	22	0	0	0	0	8	8	0.00
8	702.94	39,872	7	14	0	0	0	0	7	7	0.00
9	702.95	39,879	7	14	0	0	0	0	7	7	0.00
10	702.95	39,879	0	11	0	0	0	0	11	11	0.00
11	702.94	39,872	-7	4	0	0	0	0	11	11	0.00
12	702.93	39,865	-7	1	0	0	0	0	8	8	0.00
13	702.94	39,872	7	15	0	0	0	0	8	8	0.00
14	702.93	39,865	-7	1	0	0	0	0	8	8	0.00
15	702.93	39,865	0	8	0	0	0	0	8	8	0.00
16	702.92	39,858	-7	1	0	0	0	0	8	8	0.00
17	702.91	39,851	-7	0	0	0	0	0	7	7	0.00
18	702.94	39,872	21	29	0	0	0	1	7	8	0.00
19	702.91	39,851	-21	-15	0	0	0	1	5	6	0.00
20	702.94	39,872	21	27	0	0	0	1	5	6	0.00
21	702.94	39,872	0	5	1	0	0	1	5	6	0.00
22	703.13	40,006	134	-5	145	0	0	1	5	6	0.00
23	703.31	40,134	128	0	136	0	0	1	7	8	0.00
24	703.50	40,269	135	4	145	0	0	1	14	14	0.00
25	703.70	40,411	142	9	146	0	0	1	12	13	0.00
26	703.88	40,540	129	1	142	0	0	1	13	14	0.00
27	704.07	40,676	136	-1	152	0	0	1	14	15	0.00
28	704.22	40,783	107	-6	127	0	0	1	13	14	0.00
29	704.41	40,920	137	1	151	0	0	1	14	15	0.00
30	704.59	41,049	129	-3	146	0	0	1	13	14	0.00
Total			2,277	255	2,314	0	0	13	279	292	0.00

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

April 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity 56,430 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/		
Mar 31	221.07	45,944											
1	221.84	47,966	2,022	0	2,917	0	4,281	0	644	5,710	20	195	
2	221.23	46,364	-1,602	0	2,882	0	3,624	0	1,000	6,294	20	0	
3	220.22	43,723	-2,641	0	2,819	0	2,824	0	721	6,218	20	-15	
4	219.60	42,119	-1,604	0	2,565	0	2,721	0	802	5,483	20	210	
5	219.00	40,584	-1,535	0	2,611	0	3,338	0	570	6,013	20	-120	
3/ 6	220.50	44,453	3,869	0	2,582	972	4,675	0	0	6,218	20	-40	
7	223.24	51,687	7,234	0	523	3,600	5,467	0	0	5,881	24	121	
8	221.16	46,180	-5,507	0	0	1,319	2,125	489	0	5,691	29	-11	
9	221.86	48,019	1,839	0	0	4,822	2,898	464	0	6,239	29	-61	
10	223.11	51,340	3,321	0	520	3,761	2,957	0	0	5,403	29	-132	
11	222.56	49,873	-1,467	0	1,917	0	3,148	0	1,270	4,672	29	166	
12	221.94	48,229	-1,644	0	2,641	0	2,616	0	849	5,171	29	-37	
13	220.31	43,957	-4,272	0	2,356	0	1,920	0	652	5,782	29	33	
14	220.17	43,593	-364	0	1,976	4,082	982	0	646	6,553	32	7	
15	219.01	40,610	-2,983	0	408	5,778	0	1,032	0	6,415	14	-229	
16	219.98	43,100	2,490	0	0	9,291	561	1,791	0	6,617	14	-175	
17	221.00	45,760	2,660	0	0	7,737	1,321	1,665	0	6,127	14	89	
18	219.98	43,100	-2,660	0	0	5,106	0	1,034	0	5,576	14	177	
19	221.64	47,441	4,341	0	0	7,358	774	916	0	4,952	14	-61	
20	222.32	49,235	1,794	0	0	7,655	37	1,206	0	5,429	14	-139	
21	221.91	48,150	-1,085	0	0	4,794	1,528	1,319	0	5,548	16	14	
22	220.77	45,158	-2,992	0	0	5,485	0	1,060	0	5,947	14	28	
23	219.61	42,145	-3,013	0	0	5,122	632	1,104	0	5,914	14	-241	
24	220.74	45,080	2,935	0	0	7,956	938	1,278	0	6,224	14	102	
25	219.37	41,528	-3,552	0	0	5,113	831	1,196	0	6,406	14	-119	
26	219.84	42,738	1,210	0	0	6,528	0	1,028	0	4,869	14	-7	
27	219.90	42,893	155	0	0	6,922	573	1,288	0	5,741	14	-374	
28	220.14	43,515	622	0	0	7,399	1,081	1,674	0	6,363	16	-113	
29	220.38	44,140	625	0	0	8,051	986	1,801	0	6,794	26	-101	
30	220.53	44,531	391	0	0	9,282	0	1,880	0	7,088	26	-91	
Total				-1,413	0	26,717	128,133	52,838	22,225	7,154	177,338	602	-924
Mean cfs				---	0	891	4,271	1,761	741	238	5,911	20	-31
Acre-feet				-1,413	0	52,993	254,148	104,800	44,085	14,191	351,745	1,195	-2,138

1/ Pump-in located at Mile 79.67R.

2/ Includes 74 AF delivered to DFG at O'Neill Forebay, 9 AF to Parks and Recreation, and 1,112 AF to San Luis Water District.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

April 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Mar 31	542.39	2,020,089						
1	542.45	2,020,851	762	644	0	149	0	-111
2	542.53	2,021,866	1,015	1,000	0	171	0	-317
3	542.62	2,023,009	1,143	721	0	191	0	46
4	542.69	2,023,898	889	802	0	177	0	-177
5	542.73	2,024,406	508	570	0	178	0	-136
6	542.58	2,022,501	-1,905	0	972	176	0	188
7	542.03	2,015,523	-6,978	0	3,600	0	0	82
8	541.81	2,012,734	-2,789	0	1,319	43	0	-44
9	541.04	2,002,983	-9,751	0	4,822	88	0	-6
10	540.43	1,995,271	-7,712	0	3,761	179	0	52
11	540.48	1,995,902	631	1,270	0	206	0	-746
12	540.58	1,997,166	1,264	849	0	187	0	-25
13	540.62	1,997,672	506	652	0	149	0	-248
14	540.01	1,989,966	-7,706	646	4,082	184	0	-265
15	539.10	1,978,490	-11,476	0	5,778	186	0	178
16	537.63	1,960,001	-18,489	0	9,291	185	0	155
17	536.38	1,944,326	-15,675	0	7,737	188	0	22
18	535.56	1,934,067	-10,259	0	5,106	183	0	117
19	534.39	1,919,462	-14,605	0	7,358	159	0	154
20	533.15	1,904,025	-15,437	0	7,655	167	0	39
21	532.28	1,893,220	-10,805	0	4,794	161	0	-492
22	531.38	1,882,066	-11,154	0	5,485	153	0	15
23	530.55	1,871,799	-10,267	0	5,122	182	0	128
24	529.27	1,856,004	-15,795	0	7,956	183	0	176
25	528.41	1,845,417	-10,587	0	5,113	186	0	-39
26	527.34	1,832,275	-13,142	0	6,528	181	0	83
27	526.19	1,818,187	-14,088	0	6,922	222	0	41
28	524.95	1,803,038	-15,149	0	7,399	229	0	-10
29	523.60	1,786,596	-16,442	0	8,051	221	0	-17
30	522.08	1,768,145	-18,451	0	9,282	165	1	146
Total		-251,944		7,154	128,133	5,029	1	-1,011
Mean cfs		- - -		231	4,133	162	0	-34
Acre-feet		-251,944		14,191	254,148	9,972	1	-2,014

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 7,591 AF, San Benito: 2,381 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

April 2004

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	11,326	6,765	0	0	1,278	5	295
2	12,484	7,947	0	0	1,983	148	339
3	12,334	7,852	0	0	1,431	0	378
4	10,875	6,486	0	0	1,591	-23	351
5	11,926	7,419	0	0	1,131	-21	353
6	12,333	7,843	1,927	1,927	0	0	349
7	11,665	7,094	7,141	1,804	0	0	0
8	11,289	7,716	2,616	-133	0	0	86
9	12,376	8,870	9,565	6,866	0	0	175
10	10,717	7,120	7,459	1,561	0	0	356
11	9,267	5,662	0	0	2,520	2,520	409
12	10,256	6,669	0	0	1,683	1,683	371
13	11,468	7,889	0	0	1,293	-3	295
14	12,997	9,397	8,096	8,096	1,281	-5	365
15	12,724	9,174	11,461	8,767	0	0	368
16	13,124	9,600	18,428	13,031	0	0	366
17	12,152	8,561	15,347	8,990	0	0	373
18	11,060	7,384	10,127	3,387	0	0	362
19	9,822	6,153	14,594	6,705	0	0	315
20	10,768	7,154	15,184	7,241	0	0	331
21	11,005	6,682	9,509	4,225	0	0	320
22	11,795	7,574	10,879	5,633	0	0	303
23	11,730	7,574	10,159	2,185	0	0	361
24	12,345	8,107	15,781	7,789	0	0	362
25	12,706	8,405	10,141	4,840	0	0	369
26	9,658	5,477	12,948	5,233	0	0	360
27	11,387	7,282	13,730	5,927	0	0	441
28	12,622	8,483	14,675	7,774	0	0	454
29	13,475	9,274	15,970	8,881	0	0	438
30	14,059	9,795	18,411	11,257	0	0	327
Total	351,745	231,408	254,148	131,986	14,191	4,304	9,972

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;
adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations

April 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity 34,560 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Mar 31	327.73	20,543					
1	327.72	20,538	-5	0	0	0	-5
2	327.71	20,533	-5	0	0	0	-5
3	327.71	20,533	0	0	0	0	0
4	327.69	20,524	-9	0	0	0	-9
5	327.68	20,519	-5	0	0	0	-5
6	327.67	20,515	-4	0	0	0	-4
7	327.67	20,515	0	0	0	0	0
8	327.67	20,515	0	0	0	0	0
9	327.67	20,515	0	0	0	0	0
10	327.66	20,510	-5	0	0	0	-5
11	327.64	20,501	-9	0	0	0	-9
12	327.63	20,496	-5	0	0	0	-5
13	327.60	20,482	-14	0	0	0	-14
14	327.59	20,477	-5	0	0	0	-5
15	327.57	20,468	-9	0	0	0	-9
16	327.57	20,468	0	0	0	0	0
17	327.54	20,454	-14	0	0	0	-14
18	327.54	20,454	0	0	0	0	0
19	327.54	20,454	0	0	0	0	0
20	327.53	20,449	-5	0	0	0	-5
21	327.53	20,449	0	0	0	0	0
22	327.51	20,440	-9	0	0	0	-9
23	327.51	20,440	0	0	0	0	0
24	327.50	20,435	-5	0	0	0	-5
25	327.49	20,430	-5	0	0	0	-5
26	327.49	20,430	0	0	0	0	0
27	327.47	20,421	-9	0	0	0	-9
28	327.46	20,416	-5	0	0	0	-5
29	327.42	20,398	-18	0	0	0	-18
30	327.40	20,388	-10	0	0	0	-10
Total			-155	0	0	0	-155
Mean cfs			---	0	0	0	---
Acre-feet			-155	0	0	0	-155

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

April 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 5,580 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Mar 31	602.60	826					
1	602.60	826		1	0	1	
2	602.60	826		1	0	1	
3	602.60	826		1	0	1	
4	602.60	826		1	0	1	
5	602.60	826		1	0	1	
6	602.50	821	-5	0	0	1	
7	602.50	821		1	0	1	
8	602.50	821		1	0	1	
9	Not Observed			1	0	1	
10	602.50	821		1	0	1	
11	602.50	821		1	0	1	
12	602.50	821		1	0	1	
13	602.50	821		1	0	1	
14	602.50	821		1	0	1	
15	Not Observed			1	0	1	
16	602.50	821		1	0	1	
17	602.45	818	-3	0	0	1	
18	602.40	815	-3	0	0	1	
19	602.40	815		1	0	1	
20	602.40	815		1	0	1	
21	Not Observed			1	0	1	
22	602.40	815		1	0	1	
23	602.40	815		1	0	1	
24	602.40	815		1	0	1	
25	602.40	815		1	0	1	
26	602.45	818	3	3	0	1	
27	602.40	815	-3	0	0	1	
28	602.40	815		1	0	1	
29	602.40	815		1	0	1	
30	602.40	815		1	0	1	
Total			-11	28	0	30	---
Mean cfs			---	1	0	1	---
Acre-feet			-11	56	0	60	-7

1/ Not available on a daily basis

Table 19a. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries

(In acre-feet)

April 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
		Beginning and Ending				USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure	Mile								
2B	12	Check No. 12	66.71		104,800						
3A		San Luis Reservoir		Department of Parks and Recreation	1	7,591		1			
				San Felipe Division Santa Clara Water District	7,591						
				San Felipe Division San Benito Water District	2,381						
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation	9		41	5	4		
				Cattle Program	0						
				Department of Fish & Game	74						
		Thru 85.08	70.91	San Luis Water District	1,112	1,112		46	33		
			(Floodwater Inflow)	0							
			Reach 3 Subtotal:	1,195							
		Dos Amigos Pumping Plant	86.73		351,745						
4	14		89.03			5,966					
			Thru 94.06	San Luis Water District	5,966						
			89.66				1,539				
			Thru 89.67	Pacheco Water District	1,539						
			89.68	Panoche Water District	36						
			89.70	City of Dos Palos	128						
		Check No. 14	95.06								
4	15		98.15			701	701				
			Thru 104.20	San Luis Water District	701						
			96.15				3,772				
			Thru 102.64	Panoche Water District	3,772						
			(Floodwater Inflow)	0							
			102.64	Broadview Water District	2						
			105.22								
		Check No. 15	Thru 108.64	Westlands Water District	10,439						
			108.50								
			San Felipe Division Total:	9,972	9,972	0	0	0	0		
			Pacheco Water District Total:	1,539	1,539	0	0	0	0		
			Broadview Water District Total:	2	2	0	0	0	0		
			City of Dos Palos Total:	128	128	0	0	0	0		
			SLWD Reach 4 Subtotal:	7,779	7,779	0	0	0	0		
			Panoche Water District Total:	3,808	3,808	0	0	0	0		
			SLWD Total:	7,779	7,779	0	0	0	0		
			Westlands WD Reach 4 Subtotal:	10,439	10,439	0	0	0	0		

Table 19b. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

April 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
		Beginning and Ending				USBR	Transfer	DWR Recreation	USBR Recreation	
		No.	Structure	Mile						
5	16	110.52	(Reverse flow, Kings River)	0	13,336	13,336	1			
			Thru	Westlands Water District	13,336					
			122.05	Department of Fish and Game	1					
		Check No. 16	122.07							
	17	124.18			14,389	14,389				
			Thru	Westlands Water District	14,389					
		132.74								
		Check No. 17	132.95							
	18	133.81			15,559	15,559				
			Thru	Westlands Water District	15,559					
			142.61							
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	10,417	10,417	578			
			143.16	City of Coalinga	578					
		Check No. 18	143.23							
				Westlands WD Reach 5 Subtotal:	53,701	53,701	0	0	0	
6	19	145.26			20,903	20,903	1/ 254			
			Thru	Westlands Water District	20,903					
			151.19	Westlands Water District Lemoore Naval Air Station	254					
				City of Huron	3					
		Check No. 19	155.64			20,903	0	0	0	
				Westlands WD Reach 6 Subtotal:	20,903					
7	20	156.34		City of Huron	74	74				
			156.40							
			Thru	Westlands Water District	13,629					
			163.69							
		Check No. 20	164.69			225	225			
	21	164.79		City of Avenal	225					
			167.04							
			Thru	Westlands Water District	4,902					
		Check No. 21	172.40		237,389	4,902	4,902			
				Reach 7 Total:	18,830					
				Westlands WD Total:	103,828					
				City of Coalinga Total:	578					
				City of Huron Total:	77					
				City of Avenal Total:	225	225	0	0	0	
				Total San Luis Field Division Deliveries:	128,021					

1/ County of Kings transferred 254 AF of Table A water to Westlands Water District

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations
April 2004

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	Pools 14 & 15 2/	Pool 15	Pools 15 thru 21 3/	Flow Past Check 21	
Mar 31	28,997								
1	29,020	23	0	5,710	145	72	1,610	4,151	280
2	29,439	419	0	6,294	145	72	1,610	4,278	22
3	29,315	-124	0	6,218	145	72	1,610	4,435	-19
4	29,253	-62	0	5,483	145	72	1,610	3,880	193
5	29,276	23	0	6,013	145	72	1,610	4,127	-47
6	29,091	-185	0	6,218	145	72	1,610	4,465	-19
7	29,168	77	0	5,881	145	74	1,615	3,819	-187
8	28,829	-339	0	5,691	70	80	1,827	3,746	-139
9	29,262	433	0	6,239	70	80	1,827	3,903	-141
10	29,336	74	0	5,403	70	80	1,827	3,390	1
11	30,201	865	0	4,672	70	80	1,827	2,837	578
12	29,811	-390	0	5,171	70	80	1,827	3,596	205
13	29,217	-594	0	5,782	70	80	1,827	4,036	-68
14	29,492	275	0	6,553	70	80	1,832	4,203	-229
15	28,774	-718	0	6,415	201	48	1,624	4,700	-204
16	29,448	674	0	6,617	201	48	1,624	4,188	-216
17	29,943	495	0	6,127	201	48	1,624	4,062	58
18	30,132	189	0	5,576	201	48	1,624	3,827	219
19	29,864	-268	0	4,952	201	48	1,624	3,520	306
20	29,509	-355	0	5,429	201	48	1,624	3,902	167
21	29,303	-206	0	5,548	201	49	1,629	3,856	83
22	29,473	170	0	5,947	127	52	1,821	4,240	379
23	28,701	-772	0	5,914	127	52	1,821	4,474	171
24	29,294	593	0	6,224	127	52	1,821	3,848	-77
25	30,113	819	0	6,406	127	52	1,821	4,175	182
26	29,203	-910	0	4,869	127	52	1,821	3,480	152
27	28,761	-442	0	5,741	127	52	1,821	3,847	-117
28	28,407	-354	0	6,363	127	53	1,825	4,203	-333
29	28,463	56	0	6,794	200	76	2,299	4,526	335
30	29,354	891	0	7,088	201	76	2,299	3,968	-95
Total		357	0	177,338	4,202	1,920	52,791	119,682	1,438
Mean cfs		---	0	5,911	140	64	1,760	3,989	48
Acre-feet		357	0	351,745	8,334	3,808	104,711	237,389	2,854

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 1,538 AF AG & 1 AF M&I to Pacheco W.D., 128 AF to the City of Dos Palos, and 6,667 AF to San Luis WD.

3/ Includes 77 AF to the City of Huron, 225 AF to the City of Avenal, 578 AF to the City of Coalinga, 254 AF to Lemoore Naval Air Station @ 29L & 30L, 1 AF to F&G @ WWD Lateral 4L, 103,574 AF to WWD and 2 AF to Broadview W.D.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

April 2004

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	250	250	68	63	70	6,031	5,968	5,664	5,656
2	188	188	62	57	64	7,068	7,034	6,698	6,499
3	243	243	61	56	63	7,127	6,947	6,638	6,649
4	169	169	81	74	82	6,674	6,893	6,687	6,257
5	123	123	49	47	51	6,580	6,496	6,101	6,077
6	236	236	70	64	70	6,891	6,764	6,405	6,260
7	191	191	55	51	59	5,638	5,318	4,936	4,896
8	160	160	60	55	62	5,272	5,132	4,859	4,702
9	148	148	61	58	70	6,097	5,706	5,417	5,336
10	188	188	68	63	70	4,773	4,724	4,455	4,289
11	150	150	90	85	95	3,893	3,688	3,532	3,538
12	103	103	49	46	51	5,255	5,260	4,963	4,911
13	233	233	61	57	63	5,725	5,550	5,241	5,142
14	304	304	105	101	107	6,530	6,195	5,867	5,774
15	331	331	124	116	120	6,401	6,158	5,762	5,632
16	420	420	123	115	123	6,438	6,384	6,073	5,900
17	351	351	115	104	110	5,818	5,807	5,454	5,329
18	169	169	140	132	141	6,090	6,060	5,848	5,801
19	168	168	78	76	85	5,682	5,940	5,679	5,575
20	441	441	117	108	115	5,638	5,499	4,989	4,971
21	421	421	113	106	111	5,514	5,750	5,347	5,092
22	418	418	108	101	109	6,114	6,577	5,552	5,429
23	437	437	111	104	109	6,320	6,148	5,743	5,701
24	563	563	114	107	113	6,022	6,025	5,623	5,646
25	437	437	143	132	144	6,120	6,123	5,780	5,694
26	288	288	102	95	102	5,465	5,279	4,986	4,934
27	364	364	118	112	118	5,421	5,283	4,854	4,810
28	371	371	122	115	121	6,070	5,835	5,409	5,237
29	396	396	122	114	121	6,257	5,915	5,423	5,385
30	399	399	130	79	127	6,064	5,769	5,291	5,123
Total	8,660	8,660	2,820	2,593	2,846	178,988	176,227	165,276	162,245

Table 22a. Governor Edmund G. Brown California Aqueduct
 San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

April 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	USBR	Purchase Pool A	Purchase Pool B	Dry Year Purchase		
	No.	Structure	Mile									
7	21	Check No. 21	172.40		237,389							
8C	22		172.66	Empire West Side Irrig. Dist. TL - A	87	87						
				County of Kings TL - A	450	450						
				TLBWSD TL-A	3,519	3,519						
			175.18	DRWD - 1	125	125						
			177.54	DRWD - 1B	248	248						
			180.64	TLBWSD - C	0							
			180.65	DRWD - 1A	204	204						
			182.99	DRWD - 2	1,258	1,258						
			183.00	Tulare Lake Basin WSD TL - B	47	47						
			184.00	DRWD - Paramount	4	4						
31A	8D		184.63	Coastal Branch	8,660							
			184.78	Dudley Ridge Water Dist. DRWD - 3	747	747						
8D				Dudley Ridge Reach 8D Total:	2,586	2,586	0	0	0	0		
				Tulare Lake Basin WSD Total:	3,566	3,566	0	0	0	0		
		Check No. 22	184.82									
9	23		189.69	Kern County Water Agency Lost Hills Water Dist. - 1	2,806	2,806						
			191.18	Kern County Water Agency Lost Hills Water Dist. - 2	693	693						
			194.22	Kern County Water Agency Lost Hills Water Dist. - 3	6	6						
			196.40	Kern County Water Agency Berrenda Mesa - 2	0							
			196.75	Kern County Water Agency Lost Hills Water Dist. - 4	178	178						
				K.C.W.A. Reach 9 Subtotal:	3,683	3,683	0	0	0	0		
			Check No. 23	197.05								
10A	24		201.24	Kern County Water Agency Lost Hills Water Dist. - 7	478	478						
			202.05	Kern County Water Agency Lost Hills Water Dist. - 5	463	463						
			204.69	Kern County Water Agency Lost Hills Water Dist. - 6	0							
			205.26	Kern County Water Agency Lost Hills Water Dist. - 8	6	6						
			Check No. 24	207.94								
	25		209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	1,715	1,715						
			209.78	Kern National Wildlife Refuge USBR BV-1B	0							
				Kern County Water Agency Buena Vista WSD 1B	0							
			209.80	KCWA Semitropic WSD	2,605	2,605						
				KCWA Semitropic WSD Penstocks	14,356	14,356						
				USBR Total:	0	0	0	0	0	0		
				K.C.W.A. Reach 10A Subtotal:	19,623	19,623	0	0	0	0		

Table 22b. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

April 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Recovery of Pump In	Purchase Pool A	Purchase Pool B	MWD Ent.		
	No.	Structure	Mile									
11B	25	210.75 214.11 216.62 217.13	Kern County Water Agency Belridge - 2	0	9,872	9,872	106	0	0	0		
			Kern County Water Agency Belridge - 3	0								
			Kern County Water Agency Belridge - 4	0								
			Kern County Water Agency Belridge - 5	9,872								
			Kern County Water Agency Belridge - 5D	106								
		Check No. 25	217.79									
			K.C.W.A. Reach 11B Subtotal:	9,978	9,978	0	0	0	0	0		
12D	26	219.58	Kern County Water Agency Belridge - 6	0	374	374	0	0	0	0		
			Kern County Water Agency West Kern - 3	374								
		Check No. 26	224.92									
12E	27	230.37 Check No. 27	Kern County Water Agency Buena Vista - 6	0	3,776	3,776	0	0	0	0		
			Kern County Water Agency Buena Vista - 2	0								
	28	235.75 238.04	Kern County WA CVC	3,776								
			DRWD CVC	0								
			Tulare Co.	0								
			Lower Tule River	0								
			Fresno Co.	0								
			Pixley ID	0								
			Hacienda									
			DWR Wells	0								
	Check No. 28	238.11										
			1/ Arvin Edison Total:	0	3,776	0	0	0	0	0		
			Reach 12E Subtotal:	3,776	3,776	0	0	0	0	0		
13B	29	238.19 241.02 242.85 243.09	Kern Water Bank Inflow	0	1,991	1,991	0	0	0	0		
			Kern Water Bank Outflow	0								
			Kern River Intertie (inflow)	0								
			KCWA Buena Vista WSD - 7	0								
			KCWA Buena Vista WSD - 5	0								
			Kern County Water Agency Buena Vista - 3	1,991								
	Check No. 29	244.54	Buena Vista WSD	0								
	30	249.85	Kern County Water Agency Buena Vista - 4	0								
			Buena Vista Pumping Plant	178,988								
			K.C.W.A. Reach 13B Subtotal:	1,991	1,991	0	0	0	0	0		
14A	31	254.47	Kern County Water Agency West Kern - 2	0	124	124	0	0	0	0		
		256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	124								

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

Table 22c. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

April 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending		No.	Structure	Mile	Table A Amount	Recovery of Pump In	MWD Ent. Exchange	Exchange	MWD Ent. 1/
	No.	Structure								
14A	31	Check No. 31	256.14							
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3		177				
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4		636				
		Check No. 32	261.72							
				KCWA Reach 14A Subtotal:	937	937	0	0	0	0
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5		2,362				
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6		666				
	Check No. 33	267.36								
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7		1,480				
		Check No. 34	271.27							
				Reach 14B Total:	4,508	4,508	0	0	0	0
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8		1,498				
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9		1,344				
			277.30	Kern County Water Agency Arvin-Edison WSD		1,590				
				Reach 14C Total:	4,432	4,432	0	0	0	0
	Teerink Pumping Plant	278.13			176,227					
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A		388				
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10		4,010				
				Reach 15-A Total:	4,398	4,398	0	0	0	0
	Chrisman Pumping Plant	280.36			165,276					
	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11		0				
		Check No. 37	283.95							
16A	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12		21				
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A		115				
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13		0				
	Check No. 38	287.09								
	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B		557				
		Check No. 39	290.21							
	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14		1,098				
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15		131				
				Kern County Water Agency Tehachapi Cummings CWD		838				
				K.C.W.A. Reach 16A Subtotal:	2,760	2,760	0	0	0	0
17E	Edmonston Pumping Plant	293.45			162,245					

1/ Semitropic WSD is storing this water for MWD.

Table 23. Governor Edmund G. Brown California Aqueduct
 San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

April 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A Amount	Recovery of Pump In	MWD Ent.	Exchange	Purchase Pool B	
	No.	Structure	Mile								
31A	C-1	Coastal Branch Control	0.02		8,660	154	529	5,271			
		Las Perillas Pumping Plant	1.16		8,660						
	C-2		3.79	Green Valley Water District	0						
		Badger Hill Pumping Plant	4.27		8,660						
	C-3	Coastal Check No. 3	7.21								
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	154						
		Coastal Check No. 4	9.34								
	C-5	Coastal Check No. 5	12.20								
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	529						
			14.83	Kern County Water Agency Berrenda Mesa - 1	5,271						
				Kern County Water Agency Berrenda Mesa - PO	0						
		Devil's Den Pumping Plant	14.86		2,820						
				K.C.W.A. Reach 31A Subtotal:	5,800	5,800	0	0	0	0	
				K.C.W.A. Total:	62,260	62,260	0	0	0	0	
33A	C-7	Bluestone Pumping Plant	19.05		2,593	2,498	347				
	C-8	Polonio Pass Pumping Plant	26.54		2,846						
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant							
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	2,498						
		Tank Site 2	58.63	Central Coast:	0						
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	347						
		Energy Dissipater	78.12								
35	C-12	Lopez T.O.	85.86	SLOCFC & WCD	0	2,845	0	0	0	0	
				CCWA Total:	2,845						
		Guadalupe T.O.	102.70	SBCFC & WCD	0						
		Santa Maria T.O.	107.43	SBCFC & WCD	0						
38		So. Cal. Water T.O.	109.20	SBCFC & WCD	0						
				SBCFC & WCD Total:	0						
		Tank Site 5	115.42								

Table 24. Southern Field Division Plant Data

(in acre-feet)

April 2004

Date	West Branch					East Branch											
	Oso Pumping Plant	Warne Powerplant		Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Cherry Valley	Green Spot	Crafton Hills	
		Generation	Leakage	Generation 1/	Pumpback 1/	Generation	Bypass Through Plant	Cottonwood Chute		Generation	Leakage	Bypass Flume					
28	1	3,017	1,927	0	4,116	1,609	2,365	0	149	2,328	2,509	0	0	3,033	0	1	0
	2	2,629	2,529	0	5,609	793	3,498	0	265	3,155	3,317	0	0	3,075	0	0	0
	3	3,038	2,873	0	5,335	0	3,246	0	265	3,505	3,287	0	0	2,906	0	0	0
	4	2,295	2,354	0	146	4	3,431	0	410	3,735	3,508	0	0	2,179	0	0	0
	5	2,716	2,574	0	3,722	1,830	2,817	0	424	3,119	3,536	0	0	2,571	0	27	21
	6	3,038	2,730	0	3,746	567	2,765	0	338	2,916	3,069	0	0	2,558	9	26	26
	7	2,401	2,761	0	4,172	679	2,252	0	157	2,284	1,865	0	0	2,301	9	26	25
	8	3,144	2,780	0	6,574	2,249	1,545	0	0	1,371	1,737	0	0	2,181	0	26	26
	9	3,091	2,983	0	4,128	1,938	1,800	0	401	2,160	2,095	0	0	2,636	9	0	0
	10	2,030	2,376	0	1,914	1,914	1,927	0	246	1,872	2,099	0	0	2,524	0	0	0
	11	1,279	1,485	0	1,710	754	2,301	0	0	1,921	1,912	0	0	2,505	0	0	0
	12	2,504	2,555	0	4,407	1,623	2,444	0	0	2,128	2,099	0	0	2,924	9	24	21
	13	2,510	2,282	0	4,569	1,285	2,490	0	119	2,302	2,464	0	0	2,702	9	27	26
	14	2,503	2,766	0	6,179	1,587	3,043	0	196	2,995	2,843	0	0	2,928	0	14	0
	15	2,345	2,328	0	2,385	0	3,092	0	143	2,865	2,792	0	0	2,933	10	26	26
	16	2,665	2,724	0	3,780	0	3,044	0	183	3,014	2,855	0	0	2,921	0	26	26
	17	2,985	2,586	0	87	0	2,432	0	0	2,108	2,092	0	0	2,709	0	0	0
	18	3,836	3,113	0	462	2,042	2,135	0	0	2,043	2,097	0	0	2,557	0	0	0
	19	2,986	3,236	0	3,383	824	2,416	0	120	2,043	2,110	0	0	2,598	9	25	22
	20	2,779	3,107	0	5,435	0	2,310	0	0	2,208	2,688	0	0	2,435	9	26	24
	21	2,290	2,619	0	4,842	1,614	2,880	0	159	2,328	2,537	0	0	2,948	0	26	26
	22	1,810	1,567	0	2,484	540	3,404	0	535	3,680	3,351	0	0	2,866	8	26	26
	23	1,488	1,668	0	2,672	560	3,518	0	138	3,569	3,745	0	0	3,112	8	26	26
	24	2,026	1,703	0	1,351	1,181	3,395	0	344	3,486	3,653	0	0	3,109	0	0	0
	25	1,758	1,635	0	1,900	1,944	3,464	0	174	3,619	3,419	0	0	3,103	0	0	0
	26	1,595	1,620	0	3,854	1,052	3,084	0	239	3,073	3,423	0	0	2,867	7	29	29
	27	1,650	1,585	0	3,434	423	2,880	0	381	3,002	3,198	0	0	2,752	8	29	29
	28	1,759	1,724	0	3,086	0	3,053	0	298	3,075	3,184	0	0	2,848	0	30	30
	29	1,759	1,929	0	3,087	1,434	3,148	0	250	3,024	2,919	0	0	2,746	8	26	26
	30	1,652	1,850	0	3,239	935	3,201	0	0	3,391	3,297	0	0	2,871	8	22	21
	Total	71,578	69,969	0	101,808	29,381	83,380	0	5,934	82,319	83,700	0	0	82,398	120	488	456

1/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake

Daily Operation

Capacity: 171,200 ac-ft

April 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	
				Project		Natural	Project		Natural	United Water Agency		
				Castaic Powerplant Pumpback 1/	Warne Powerplant	Stream Flow	Castaic Powerplant Generation 1/	Recreation Deliveries	To Piru Creek			
Mar 31	2575.28	166,413										
1	2574.69	165,663	-750	1,609	1,927	24	4,116	0	52	0	-142	
2	2572.85	163,338	-2,325	793	2,529	24	5,609	0	52	0	-10	
3	2570.91	160,909	-2,429	0	2,873	25	5,335	0	52	0	60	
4	2572.65	163,086	2,177	4	2,354	25	146	0	52	0	-8	
5	2573.15	163,715	629	1,830	2,574	23	3,722	0	52	0	-24	
6	2572.75	163,212	-503	567	2,730	23	3,746	0	52	0	-25	
7	2572.09	162,383	-829	679	2,761	23	4,172	0	52	0	-68	
8	2570.80	160,772	-1,611	2,249	2,780	22	6,574	0	52	0	-36	
9	2571.35	161,458	686	1,938	2,983	22	4,128	0	52	0	-77	
10	2573.19	163,766	2,308	1,914	2,376	22	1,914	0	52	0	-38	
11	2573.51	164,169	403	754	1,485	22	1,710	0	52	0	-96	
12	2573.20	163,778	-391	1,623	2,555	22	4,407	0	52	0	-132	
13	2572.34	162,697	-1,081	1,285	2,282	22	4,569	0	52	0	-49	
14	2570.77	160,735	-1,962	1,587	2,766	22	6,179	0	52	0	-106	
15	2570.71	160,660	-75	0	2,328	22	2,385	0	52	0	12	
16	2569.71	159,419	-1,241	0	2,724	22	3,780	0	52	0	-155	
17	2571.65	161,833	2,414	0	2,586	22	87	0	52	0	-55	
18	2575.31	166,451	4,618	2,042	3,113	23	462	0	52	0	-46	
19	2575.78	167,051	600	824	3,236	23	3,383	0	52	0	-48	
20	2573.87	164,624	-2,427	0	3,107	22	5,435	0	52	0	-69	
21	2573.27	163,866	-758	1,614	2,619	21	4,842	0	52	0	-118	
22	2572.91	163,413	-453	540	1,567	20	2,484	0	52	0	-44	
23	2572.29	162,634	-779	560	1,668	19	2,861	0	52	0	-113	
24	2573.27	163,866	1,232	1,181	1,703	17	1,351	0	52	0	-266	
25	2574.75	165,739	1,873	1,944	1,635	17	1,900	0	52	0	229	
26	2573.71	164,422	-1,317	1,052	1,620	16	3,854	0	52	0	-99	
27	2572.54	162,948	-1,474	423	1,585	16	3,434	0	52	0	-12	
28	2571.34	161,445	-1,503	0	1,724	16	3,086	0	51	0	-106	
29	2571.52	161,670	225	1,434	1,929	16	3,087	0	51	0	-16	
30	2570.93	160,934	-736	935	1,850	16	3,239	0	51	0	-247	
Total				-5,479	29,381	69,969	629	101,997	0	1,557	0	-1,904

1/ Values supplied by LADWP, not verified by DWR.

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

April 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Mar 31	1511.76	19,868								
1	1511.85	19,903	35	4,116	1	1,609	1	2,472	0	
2	1515.00	21,161	1,258	5,609	1	793	1	3,558	0	
3	1515.05	21,181	20	5,335	1	0	1	5,315	0	
4	1511.97	19,950	-1,231	146	1	4	1	1,374	1	
5	1516.60	21,815	1,865	3,722	1	1,830	1	0	-27	
6	1517.78	22,304	489	3,746	1	567	1	2,690	0	
7	1519.17	22,888	584	4,172	0	679	0	2,902	-7	
8	1522.37	24,261	1,373	6,574	0	2,249	0	2,953	1	
9	1520.86	23,608	-653	4,128	0	1,938	0	2,841	-2	
10	1514.39	20,913	-2,695	1,914	0	1,914	0	2,697	2	
11	1516.71	21,860	947	1,710	0	754	0	0	-9	
12	1516.59	21,811	-49	4,407	0	1,623	0	2,834	1	
13	1516.61	21,819	8	4,569	0	1,285	0	3,275	-1	
14	1520.74	23,557	1,738	6,179	0	1,587	0	2,854	0	
15	1519.53	23,041	-516	2,385	0	0	0	2,902	1	
16	1521.43	23,854	813	3,780	0	0	0	2,967	0	
17	1516.17	21,638	-2,216	87	0	0	0	2,304	1	
18	1512.30	20,080	-1,558	462	0	2,042	0	0	22	
19	1514.02	20,765	685	3,383	0	824	0	1,876	2	
20	1519.89	23,194	2,429	5,435	0	0	0	3,005	-1	
21	1521.08	23,703	509	4,842	0	1,614	0	2,717	-2	
22	1519.58	23,062	-641	2,484	0	540	0	2,586	1	
23	1518.40	22,564	-498	2,861	0	560	0	2,799	0	
24	1513.38	20,508	-2,056	1,351	0	1,181	0	2,225	-1	
25	1513.30	20,476	-32	1,900	0	1,944	0	0	12	
26	1514.43	20,930	454	3,854	0	1,052	0	2,349	1	
27	1514.84	21,095	165	3,434	0	423	0	2,845	-1	
28	1516.40	21,732	637	3,086	0	0	0	2,449	0	
29	1514.65	21,018	-714	3,087	0	1,434	0	2,367	0	
30	1514.96	21,144	126	3,239	0	935	0	2,178	0	
Total			1,276	101,997	6	29,381	6	71,334	-6	

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

April 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay /1		Natural	Deliveries	Released To Castaic Lagoon		
				Natural	Project					
Mar 31	1509.52	311,586								
1	1509.58	311,717	131	1	2,472	3	2,308	0	-37	
2	1510.12	312,899	1,182	1	3,558	3	2,246	0	-134	
3	1511.49	315,909	3,010	1	5,315	3	2,227	0	-82	
4	1511.22	315,315	-594	1	1,374	3	2,140	0	168	
5	1510.17	313,009	-2,306	1	0	3	2,327	0	17	
6	1510.26	313,206	197	1	2,690	3	2,330	0	-167	
7	1510.50	313,732	526	0	2,902	3	2,380	0	1	
8	1510.72	314,215	483	0	2,953	3	2,387	0	-86	
9	1510.87	314,545	330	0	2,841	2	2,469	0	-44	
10	1510.90	314,611	66	0	2,697	2	2,511	0	-122	
11	1509.79	312,177	-2,434	0	0	2	2,483	0	47	
12	1509.98	312,593	416	0	2,834	2	2,431	0	11	
13	1510.31	313,316	723	0	3,275	2	2,523	0	-31	
14	1510.43	313,579	263	0	2,854	2	2,512	0	-81	
15	1510.58	313,908	329	0	2,902	2	2,548	0	-27	
16	1510.76	314,303	395	0	2,967	2	2,508	0	-66	
17	1510.76	314,303	0	0	2,304	2	2,405	0	99	
18	1509.74	312,067	-2,236	0	0	2	1,705	0	-533	
19	1509.53	311,608	-459	0	1,876	2	2,322	0	-15	
20	1509.77	312,133	525	0	3,005	2	2,467	0	-15	
21	1509.86	312,330	197	0	2,717	2	2,530	0	8	
22	1509.92	312,461	131	0	2,586	1	2,519	0	63	
23	1510.04	312,724	263	0	2,799	1	2,538	0	1	
24	1509.92	312,461	-263	0	2,225	1	2,524	0	35	
25	1508.81	310,037	-2,424	0	0	1	2,573	0	148	
26	1508.72	309,841	-196	0	2,349	1	2,558	0	12	
27	1508.92	310,276	435	0	2,845	0	2,488	0	78	
28	1508.86	310,146	-130	0	2,449	0	2,531	0	-48	
29	1508.80	310,015	-131	0	2,367	0	2,518	0	20	
30	1508.69	309,775	-240	0	2,178	0	2,601	0	183	
Total			-1,811	6	71,334	55	72,609	0	-597	

1/ Values supplied by LADWP, not verified by DWR.

Table 28. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

April 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Rec.	Local	Transfer 2/	Flexible Payback		
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		71,578							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved							
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
		Warne Power Plant	14.07		69,969							
29H	W3	Pyramid Lake		Calif. State Park Pyramid Recreation	0							
			14.10	United Water Conservation Dist.	0							
		Pyramid Dam	17.10	Piru Creek Fish Enhancement	0							
		Castaic Power Plant	25.82	(29,381 AF pumpback) 2/	101,808							
29J	W4	Elderberry Forebay										
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		Calif. State Park Castaic Lake Recreation	38							
		Castaic Dam	31.47									
		Castaic Lake Outlet		MWD - 78"	15,701							
				MWD - 132"	53,030							
				Castaic Lake WA - T1	2,465							
				Castaic Lake WA	1,221							
				United Water Conservation Dist.	0							
				MWD - Ventura County FCD	154							
				LA Co. Parks & Recreation	0							
				Releases to Lagoon	0							
				Reach 30 Subtotal:	72,609	72,571	38	0	0	0		
	W6	Castaic Lagoon		Recreation to Lagoon	0							
		Castaic Lagoon Outlet	31.87		155							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value supplied by LADWP, not verified by DWR.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

April 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
							Project			Del. To Mojave W.A.	Natural To Mojave River			
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Rec.	San Bernardino Tunnel						
Mar 31	3350.30	70,459												
1	3349.80	69,988	-471	2,509	0	6	5	0	3,033	0	1	53	6	
2	3350.10	70,271	283	3,317	0	7	6	0	3,075	0	0	40	0	
3	3350.50	70,648	377	3,287	0	6	7	0	2,906	0	0	-3	0	
4	3351.90	71,977	1,329	3,508	0	6	6	0	2,179	0	1	1	0	
5	3353.00	73,032	1,055	3,536	0	6	7	0	2,571	0	0	91	0	
6	3353.50	73,513	481	3,069	0	6	6	0	2,558	0	1	-29	0	
7	3353.00	73,032	-481	1,865	0	6	5	0	2,301	0	0	-46	0	
8	3352.53	72,580	-452	1,737	0	5	5	0	2,181	0	1	-7	0	
9	3351.90	71,977	-603	2,095	0	5	6	0	2,636	0	0	-61	0	
10	3351.50	71,596	-381	2,099	0	5	6	0	2,524	0	0	45	0	
11	3350.90	71,026	-570	1,912	0	5	6	0	2,505	0	0	24	0	
12	3350.00	70,176	-850	2,099	0	4	6	0	2,924	0	1	-22	4	
13	3349.80	69,988	-188	2,464	0	4	5	0	2,702	0	0	51	10	
14	3349.72	69,913	-75	2,843	0	4	5	0	2,928	0	0	11	10	
15	3349.58	69,782	-131	2,792	0	4	6	0	2,933	0	1	13	10	
16	3349.52	69,725	-57	2,855	0	4	5	0	2,921	0	0	10	10	
17	3348.87	69,117	-608	2,092	0	7	5	0	2,709	0	0	7	10	
18	3348.37	68,651	-466	2,097	0	7	5	0	2,557	0	1	-7	10	
19	3347.81	68,131	-520	2,110	0	5	5	0	2,598	0	0	-32	9	
20	3348.06	68,363	232	2,688	0	4	5	0	2,435	0	0	-20	6	
21	3347.61	67,946	-417	2,537	0	4	5	0	2,948	0	1	-4	0	
22	3348.14	68,437	491	3,351	0	4	6	0	2,866	0	0	8	0	
23	3348.90	69,145	708	3,745	0	4	5	0	3,112	0	0	76	0	
24	3349.46	69,669	524	3,653	0	4	6	0	3,109	0	1	-17	0	
25	3349.83	70,016	347	3,419	0	3	5	0	3,103	0	0	33	0	
26	3350.42	70,572	556	3,423	0	3	6	0	2,867	0	0	3	0	
27	3350.87	70,998	426	3,198	0	3	7	1	2,752	0	1	-14	0	
28	3351.26	71,368	370	3,184	0	3	0	1	2,848	0	0	32	0	
29	3351.40	71,501	133	2,919	0	3	5	1	2,746	0	0	-37	0	
30	3351.88	71,958	457	3,297	0	2	2	0	2,871	0	1	32	0	
Total				1,499	83,700	0	139	159	3	82,398	0	11	231	85

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

April 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Mar 31	1586.03	122,355				
1	1585.97	122,220	-135		9	
2	1585.99	122,265	45		9	
3	1585.92	122,107	-158		10	
4	1585.98	122,242	135		9	
5	1585.91	122,084	-158		10	
6	1585.91	122,084	0		9	
7	1585.94	122,152	68		9	
8	1585.92	122,107	-45		10	
9	1585.93	122,129	22		9	
10	1585.96	122,197	68		9	
11	1585.95	122,174	-23		9	
12	1585.99	122,265	91		9	
13	1585.82	121,881	-384		9	
14	1585.79	121,813	-68		9	
15	1585.82	121,881	68		10	
16	1585.65	121,497	-384		119	
17	1585.65	121,497	0		9	
18	1585.61	121,407	-90		10	
19	1585.61	121,407	0		187	
20	1585.60	121,385	-22		406	
21	1585.55	121,272	-113		182	
22	1585.56	121,294	22		9	
23	1585.59	121,362	68		10	
24	1585.60	121,385	23		119	
25	1585.55	121,272	-113		109	
26	1585.57	121,317	45		111	
27	1585.57	121,317	0		54	
28	1585.58	121,339	22		9	
29	1585.58	121,339	0		9	
30	1585.52	121,204	-135		9	
Total			-1,151	1,836	1,491	-1,496

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at lake Perris.

Table 31a. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch)

April 2004

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries									
	Beginning and Ending					Table A Amount	Rec.	Transfer	Purchase Pool A	Transfer Local Out					
	No.	Structure	Mile												
17E	40	Edmonston Pumping Plant	293.45		162,245										
	41		298.65		Kern County Water Agency Tej.-Cas		Stub								
17F		Check No. 41	303.41												
18A	42	Check No. 42	304.99												
19	43	Alamo Powerplant	305.73	(Does not include 5,934 AF flow down Cottonwood Chute)	83,380										
			308.05	Antelope Valley-East Kern WA	0										
		Check No. 43	309.70												
	44		311.84	LADWP Connection	0										
			313.50	AVEK 245th Street West	0										
	Check No. 44		314.81												
	45		314.93	AVEK 235th Street West	0										
			315.57	AVEK 225th Street West	0										
	Check No. 45		319.74												
	46		323.19	Antelope Valley-East Kern WA											
				Fairmont	941										
				Mojave Water Agency											
		Check No. 46	323.84	Fairmont	87										
				Reach 19 Total:	1,028										
20A	47	Check No. 47	326.77												
	48		326.91	Antelope Valley-East Kern WA											
			329.65	Willow Springs Siphon	34										
		Check No. 48	330.82	Antelope Valley-East Kern WA	Removed										
	49	Check No. 49	335.93												
	50		336.73	AVEK WA - Quartz Hill											
				(Wheeled for Palmdale WD)	0										
				Antelope Valley-East Kern WA	2,953										
20B			339.68	Antelope Valley-East Kern WA	67										
		Check No. 50	341.51												
	51	Check No. 51	342.07												
	52		342.80	Antelope Valley-East Kern WA	Not in Use										
			343.50	30th Street West											
	Check No. 52		343.74	Antelope Valley-East Kern WA	10										
	53		346.98	PWD Palmdale	661										
				Antelope Valley-East Kern WA											
21				Acton Treatment Plant	92										
		Check No. 53	348.17												
	54	Check No. 54	350.25												
	55	Check No. 55	352.70												
	56	Check No. 56	354.76												
22A			354.97	Littlerock Creek I.D.	0										
	57	Check No. 57	356.93												
	58		357.60	Antelope Valley-East Kern WA	111										
			357.72	96th Street East	0										
			359.82	Antelope Valley-East Kern WA	481										
				East Side Treatment Plant											

Table 31b. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch, Continued)

April 2004

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Recreation	Ex-change	Article 14B Table A Carryover	Purchase Pool A		
	No.	Structure	Mile									
22B	58	Pearblossom Pumping Plant	360.61		82,319	479						
	59	Check No. 59	366.09									
	60		366.50	Antelope Valley-East Kern WA	0							
		Check No. 60	373.94									
	61	Check No. 61	379.00									
	62	Check No. 62	384.26									
	63	Check No. 63	389.20	Mojave Water Agency Mojave River	479							
			394.60	Mojave Water Agency Temporary	0							
	64	Check No. 64	395.10									
	65	Check No. 65	400.32									
	66		401.10	Mojave Water Agency Morongo 24" and 42"	376							
				Mojave Water Agency Hesperia	0							
		Check No. 66	403.41									
23	67	Mojave Siphon	405.48	Las Flores Ranch	85	159						
		Mojave Siphon Powerplant	405.65		83,700							
24		Silverwood Lake	407.65	Crestline Lake Arrowhead Water Agency	159							
				Calif. State Park Silverwood Agency (Rec.)	3							
25		San Bernardino Tunnel Intake	407.70		82,398							
26A	68	Devil Canyon Powerplant	412.73		82,398	5,887						
		Devil Canyon Afterbay Control Structures	412.88	MWD-SC Rialto	12,075							
				Desert Water Agency (MWD Wheeling Exchange)	0							
				San Gabriel Valley Water District	46							
				Coachella Valley WD (MWD Wheeling Exchange)	0							
				San Bernardino Valley MWD 24" and 72"	0							
				San Bernardino Valley MWD 48"	90							
				MWD (SBVMWWD Exchange)	36,493							
				San Gorgonio Pass Water Agency	122							
28G	69	Santa Ana Valley Pipeline	425.46			7,313						
28H			433.06	MWD-SC Box Springs	7,313							
			440.05	MWD-SC Perris Bypass Pipeline	24,736							
28J			442.00	MWD-SC 18"	276							
		Lake Perris	443.44	MWD-SC 54"	393							
				MWD-SC 78"	799							
				Calif. State Park Lake Perris Recreation	23							
				MWD Total:	153,603	147,415	0	0	1,373	4,815		

Table 32. Water Quality At Selected SWP Locations

April 2004

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l as CaCO ₃	39	144	70	72	80	77	75	75	77
Antimony	mg/l	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Beryllium	mg/l	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.3	0.1	0.1	0.2	0.2	0.2	0.2	0.2
Bromide	mg/l	NR	0.04	0.08	0.06	0.18	0.13	0.11	0.12	0.10
Calcium	mg/l	8	24	18	17	22	21	20	19	23
Carbon - Dissolved Organic	mg/l as C	NR	8	3	5	3	3	3	3	4
Carbon - Total Organic	mg/l as C	NR	8	3	3	3	3	3	3	4
Chloride	mg/l	<1	35	28	30	74	56	47	48	46
Chromium	mg/l	<0.001	0.001	<0.001	0.002	0.001	<0.001	<0.001	0.001	0.001
Copper	mg/l	0.001	0.004	0.002	0.002	0.002	0.003	0.002	0.002	0.003
Fluoride	mg/l	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
Hardness	mg/l as CaCO ₃	32	159	86	84	113	102	95	93	107
Iron	mg/l	<0.005	0.010	<0.005	0.056	0.038	0.068	0.006	<0.005	0.011
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	3	24	10	10	14	12	11	11	12
Manganese	mg/l	<0.005	0.015	0.014	0.006	0.009	0.007	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l as N	<0.01	0.32	0.28	NR	NR	0.67	NR	0.58	0.76
Phosphorus-Ortho	mg/l as P	<0.01	0.18	0.04	NR	NR	0.08	NR	0.06	0.08
Phosphorus-Total	mg/l	0.01	0.28	0.06	NR	NR	0.10	NR	0.09	0.10
Selenium	mg/l	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	0.001
Sodium	mg/l	3	47	26	26	54	42	37	37	41
Specific Conductance	µS/cm	82	472	288	299	484	412	376	377	385
Sulfate	mg/l	2	44	27	28	41	39	37	35	42
Total Dissolved Solids	mg/l	52	274	166	174	271.5	231	210	221	217
Turbidity	NTU	3	39	5	12	2	8	8	8	5
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

April 2004

Date	Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in milliSiemens/cm								Cl in mg/l			
	(Antioch) Daily Mean		Net Delta Outflow Index		Rio Vista	Antioch	Chippis Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal		
	Mean Daily	Monthly Average	md	md				md	14dm	md	14dm					
	Hi	Half	md	md	md	md	md	14dm	md	14dm	md	md	md	md		
38	1	2.40	0.82	15,827	15,827	19,521	0.23	0.91	0.18	0.18	0.19	0.18	0.33	1.67	0.41	18
	2	2.56	0.86	14,998	15,413	18,224	0.24	0.65	0.19	0.18	0.19	0.18	0.29	1.61	0.45	18
	3	2.80	1.04	14,838	15,221	17,074	0.26	1.06	0.19	0.18	0.19	0.19	0.32	1.53	0.47	18
	4	2.65	1.05	14,454	15,029	16,636	0.28	1.27	0.19	0.18	0.19	0.19	0.32	1.60	0.44	17
	5	2.86	0.97	14,682	14,960	17,289	0.30	1.09	0.19	0.18	0.19	0.19	0.29	1.61	0.41	16
	6	2.90	0.85	16,122	15,153	19,429	0.30	0.86	0.19	0.18	0.19	0.19	0.30	1.57	0.38	16
	7	3.03	0.94	20,222	15,878	21,578	0.29	0.81	0.18	0.18	0.19	0.19	0.33	1.57	0.42	17
	8	3.25	1.14	29,790	17,617	26,222	0.28	0.69	0.17	0.18	0.19	0.19	0.30	1.55	0.39	17
	9	3.48	1.26	29,683	18,957	28,017	0.24	0.57	0.16	0.18	0.19	0.19	0.34	1.54	0.43	18
	10	3.47	1.30	29,809	20,042	29,208	0.26	0.45	0.15	0.18	0.19	0.19	0.29	1.50	0.42	18
	11	3.46	1.49	30,102	20,957	30,133	0.23	0.34	0.14	0.17	0.19	0.19	0.27	1.49	0.40	17
	12	2.99	1.33	29,444	21,664	29,881	0.22	0.21	0.14	0.17	0.18	0.19	0.28	1.43	0.37	17
	13	2.75	1.17	29,914	22,299	28,984	0.20	0.30	0.14	0.17	0.17	0.19	0.30	1.39	0.34	16
	14	2.50	0.97	29,146	22,788	27,513	0.20	0.15	0.13	0.17	0.17	0.19	0.29	1.36	0.32	16
	15	2.43	0.91	31,014	23,336	26,197	0.19	0.13	0.14	0.16	0.17	0.19	0.27	1.20	0.31	16
	16	2.40	0.89	30,185	23,764	25,238	0.19	0.20	0.14	0.16	0.16	0.18	0.29	1.17	0.26	17
	17	2.60	0.95	30,434	24,157	25,245	0.19	0.20	0.14	0.16	0.16	0.18	0.33	1.08	0.25	17
	18	2.70	0.80	30,632	24,516	25,174	0.18	0.19	0.14	0.15	0.15	0.18	0.34	1.02	0.34	18
	19	2.64	0.82	31,346	24,876	24,312	0.19	0.20	0.13	0.15	0.15	0.18	0.33	0.98	0.44	17
	20	3.00	0.99	27,946	25,029	21,071	0.18	0.14	0.13	0.15	0.15	0.17	0.31	0.94	0.48	17
	21	2.89	1.07	24,809	25,019	18,342	0.18	0.15	0.14	0.14	0.15	0.17	0.35	0.90	0.46	18
	22	2.87	0.85	22,298	24,895	16,060	0.18	0.14	0.14	0.14	0.15	0.17	0.37	0.90	0.46	17
	23	2.50	0.79	20,382	24,699	14,617	0.17	0.20	0.14	0.14	0.15	0.16	0.32	0.91	0.34	19
	24	2.61	0.93	16,771	24,369	12,774	0.17	0.16	0.15	0.14	0.15	0.16	0.33	0.79	0.31	18
	25	2.42	0.84	15,326	24,007	11,848	0.17	0.18	0.15	0.14	0.15	0.16	0.32	0.78	0.31	19
	26	2.20	0.82	14,709	23,649	11,135	0.17	0.24	0.16	0.14	0.15	0.16	0.40	0.75	0.36	17
	27	1.98	0.78	13,640	23,279	10,162	0.17	0.59	0.00	0.14	0.15	0.15	0.40	0.73	0.46	18
	28	2.15	0.98	12,185	22,882	9,038	0.18	0.00	0.17	0.14	0.16	0.15	0.40	0.63	0.44	19
	29	2.05	0.73	11,959	22,506	8,807	0.19	1.73	0.17	0.14	0.16	0.15	0.40	0.60	0.45	19
	30	2.09	0.77	12,246	22,164	9,016	0.21	2.38	0.17	0.15	0.17	0.15	0.40	0.57	0.40	19

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

April 2004

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant		No Sample	
California Aqueduct At Banks Pumping Plant	March 17, 2004	None Detected	
O'Niell Forebay Outlet Check 13	March 17, 2004	None Detected	
Delta Mendota Canal At McCabe Road	March 17, 2004	None Detected	
California Aqueduct Near Kettleman City (Check 21)	March 17, 2004	None Detected	
California Aqueduct At Tehachapi Afterbay (Check 41)	March 17, 2004	None Detected	
Devil Canyon Head Works	March 17, 2004	None Detected	

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

April 2004

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	5,061,024	2,880	5,488	14,238	2,471,040	2,471,040	492,730	18,752
2	6,428,448	0	7,147	16,464	2,027,520	2,027,520	493,025	18,746
3	3,717,792	0	4,921	10,066	1,903,680	1,903,680	490,915	18,741
4	4,722,624	0	5,033	9,646	1,898,688	1,898,688	486,970	17,401
5	11,943,072	0	6,734	13,475	2,196,480	2,196,480	476,055	15,679
6	11,273,184	0	8,050	14,301	2,923,200	2,923,200	351,465	2,103
7	15,864,768	0	7,700	12,516	3,263,616	3,263,616	376,330	223
8	16,235,712	0	9,261	14,329	1,164,480	1,164,480	383,050	227
9	14,686,560	0	11,074	15,113	1,940,928	1,940,928	338,100	231
10	9,600,192	0	10,234	15,239	1,851,840	1,851,840	339,955	239
11	4,504,896	0	10,122	16,051	1,830,144	1,830,144	319,530	231
12	9,257,472	0	11,228	15,491	1,632,576	1,632,576	333,380	224
13	12,789,792	0	8,113	11,984	1,088,640	1,088,640	313,930	225
14	14,007,456	0	8,505	14,616	567,552	567,552	314,855	222
15	12,958,560	0	16,156	12,908	168,192	168,192	310,620	224
16	12,696,480	0	13,818	13,006	819,072	819,072	347,280	218
17	10,501,056	0	9,905	12,761	871,680	871,680	344,345	221
18	11,079,072	0	10,906	14,742	15,552	15,552	326,460	218
19	9,235,584	0	11,536	12,992	764,352	764,352	341,605	218
20	7,655,616	0	11,403	13,384	117,120	117,120	310,455	220
21	7,174,656	0	12,586	13,783	842,112	842,112	344,185	227
22	4,142,304	1,050,624	16,737	13,020	16,704	16,704	441,890	9,350
23	5,360,832	1,648,224	14,623	13,013	563,904	563,904	453,235	8,773
24	1,407,456	1,439,136	15,484	14,294	891,648	891,648	454,885	9,794
25	2,264,256	2,295,072	17,269	16,065	893,184	893,184	455,995	9,805
26	7,935,840	0	19,285	17,535	18,048	18,048	478,075	9,354
27	6,514,848	0	24,430	21,805	540,480	540,480	516,895	10,651
28	8,836,992	0	24,185	25,893	839,808	839,808	497,300	8,457
29	8,340,192	0	30,527	34,881	846,720	846,720	510,020	10,606
30	7,868,160	0	31,976	40,026	19,584	19,584	526,665	9,992
Total	264,064,896	6,435,936	394,436	483,637	34,988,544	34,988,544	12,170,200	181,572

Table 36. San Luis Field Division Energy Data

(in kWh)

April 2004

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,534,752	916,752	0	0	472,608	13,608
2	1,700,352	1,082,352	0	0	841,536	76,536
3	1,700,640	1,082,640	0	0	610,848	15,848
4	1,481,760	883,760	0	0	601,056	6,056
5	1,635,120	1,017,120	0	0	601,056	6,056
6	1,697,616	1,079,616	543,168	543,168	11,520	11,520
7	1,576,944	958,944	1,986,912	501,912	7,776	7,776
8	1,526,256	1,043,256	713,664	-36,336	7,488	7,488
9	1,705,104	1,222,104	2,657,664	1,907,664	7,776	7,776
10	1,439,136	956,136	2,063,808	431,808	7,488	7,488
11	1,233,936	753,936	0	0	880,992	880,992
12	1,381,104	898,104	0	0	732,960	732,960
13	1,547,712	1,064,712	0	0	470,880	11,880
14	1,743,552	1,260,552	2,163,168	2,163,168	459,936	936
15	1,731,168	1,248,168	3,190,176	2,440,176	5,760	5,760
16	1,798,992	1,315,992	5,070,528	3,585,528	0	0
17	1,634,400	1,151,400	4,176,576	2,446,576	8,352	8,352
18	1,444,320	964,320	2,773,728	927,728	8,640	8,640
19	1,292,832	809,832	3,940,416	1,810,416	8,064	8,064
20	1,439,280	956,280	4,071,744	1,941,744	7,488	7,488
21	1,450,944	880,944	2,564,640	1,139,640	7,776	7,776
22	1,592,640	1,022,640	2,955,168	1,530,168	1,440	1,440
23	1,608,912	1,038,912	2,713,536	583,536	7,488	7,488
24	1,660,464	1,090,464	4,205,952	2,075,952	6,912	6,912
25	1,701,504	1,125,504	2,726,208	1,301,208	7,488	7,488
26	1,316,592	746,592	3,449,088	1,394,088	6,624	6,624
27	1,580,976	1,010,976	3,615,840	1,560,840	5,760	5,760
28	1,738,368	1,168,368	3,859,776	2,044,776	5,760	5,760
29	1,828,368	1,258,368	4,190,400	2,330,400	1,728	1,728
30	1,879,344	1,309,344	4,786,560	2,926,560	0	0
Total	47,603,088	31,318,088	68,418,720	35,550,720	5,803,200	1,876,200

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Pumping Plant Energy Load Data

(in kWh)

April 2004

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devils Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	19,522	48,928	47,670	45,375	48,955	1,442,736	1,557,432	3,460,896	12,670,560
2	14,920	39,992	44,270	41,680	45,005	1,675,296	1,833,912	4,053,600	14,648,400
3	18,462	48,960	43,540	40,960	44,305	1,703,088	1,811,304	4,000,896	14,996,160
4	11,796	28,840	54,325	50,435	54,520	1,599,264	1,730,736	3,863,520	14,116,320
5	9,540	24,144	35,625	34,035	35,950	1,588,320	1,680,912	3,722,400	13,691,520
6	17,658	45,648	49,115	46,060	49,245	1,652,112	1,760,472	3,884,832	14,108,400
7	14,976	39,296	39,315	37,565	41,720	1,351,800	1,377,648	3,018,816	10,955,520
8	12,402	31,728	43,185	40,455	43,425	1,273,824	1,336,248	2,947,392	10,656,000
9	11,146	28,848	47,925	46,650	49,265	1,463,040	1,497,672	3,284,928	12,053,520
10	14,158	36,552	48,405	46,065	48,945	1,149,984	1,230,912	2,727,360	9,695,520
11	11,044	27,904	63,590	60,775	65,835	937,008	961,920	2,160,288	8,004,960
12	8,054	18,984	35,910	34,190	36,455	1,251,432	1,372,392	3,036,672	11,086,560
13	17,712	45,024	43,885	41,925	44,235	1,372,248	1,463,472	3,205,728	11,620,080
14	23,738	61,768	72,990	71,210	73,495	1,561,176	1,637,280	3,564,288	13,025,520
15	25,724	67,720	84,755	81,575	84,070	1,539,504	1,609,344	3,534,048	12,698,640
16	31,884	83,080	83,920	80,495	83,240	1,540,800	1,662,984	3,701,088	13,321,440
17	26,286	70,336	77,130	73,060	76,010	1,401,840	1,506,672	3,280,320	12,045,600
18	12,476	33,744	96,595	90,395	96,585	1,462,824	1,575,432	3,554,496	13,093,200
19	13,012	30,224	56,140	53,920	57,585	1,359,792	1,544,976	3,456,288	12,461,760
20	34,228	89,392	79,515	75,535	78,675	1,357,920	1,409,328	3,039,264	11,232,000
21	32,312	83,832	77,885	74,210	76,175	1,330,848	1,489,680	3,237,120	11,506,320
22	32,802	84,184	74,370	71,050	74,825	1,461,240	1,557,864	3,409,344	12,250,800
23	34,150	88,752	76,795	72,780	75,300	1,515,672	1,595,016	3,505,536	12,877,200
24	43,066	114,632	78,415	74,720	77,955	1,446,048	1,569,096	3,491,712	12,741,120
25	33,368	88,944	98,330	93,710	99,105	1,475,640	1,590,408	3,524,544	12,852,000
26	22,868	58,168	70,665	67,160	70,290	1,289,808	1,370,880	3,038,400	11,140,560
27	28,150	74,352	81,420	78,150	81,220	1,292,256	1,378,800	2,983,968	10,864,080
28	28,820	73,240	83,800	80,360	83,320	1,452,240	1,515,816	3,291,840	11,829,600
29	30,160	77,032	84,315	79,925	82,925	1,496,952	1,530,720	3,322,368	12,144,960
30	31,178	79,752	88,035	84,545	87,210	1,450,944	1,488,600	3,225,888	11,583,360
Total	665,612	1,724,000	1,961,835	1,868,970	1,965,845	42,895,656	45,647,928	100,527,840	365,971,680

Table 38. Southern Field Division Energy Data

(in kWh)

April 2004

Date	West Branch			East Branch			
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Generation	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation
1	791,056	1,149,264	2,880,000	279,160	1,564,776	3,650,688	193,620
2	689,920	1,437,408	2,880,000	412,832	2,126,568	3,694,752	271,299
3	796,376	1,680,768	2,880,000	383,068	2,350,020	3,557,952	267,288
4	600,544	1,406,016	2,070,000	398,020	2,508,468	2,757,312	279,363
5	711,648	1,495,728	2,880,000	332,360	2,097,000	3,103,296	276,360
6	795,424	1,545,552	2,880,000	326,312	1,960,500	3,145,440	237,657
7	630,560	1,570,608	2,880,000	265,720	1,541,748	2,842,560	140,280
8	823,816	1,587,096	2,880,000	182,308	928,620	2,676,576	129,234
9	811,440	1,679,184	2,880,000	212,408	1,458,828	3,156,288	154,875
10	534,744	1,365,984	0	227,360	1,269,036	3,095,424	156,093
11	338,408	856,800	2,400,000	271,516	1,297,740	3,081,504	147,210
12	653,072	1,456,272	2,400,000	288,400	1,433,388	3,579,648	157,836
13	656,712	1,325,592	2,400,000	293,804	1,558,212	3,299,904	188,706
14	658,280	1,571,112	2,400,000	359,128	2,021,148	3,563,424	233,289
15	615,160	1,346,760	2,400,000	364,840	1,920,948	3,570,528	226,863
16	699,048	1,548,288	2,400,000	359,184	2,021,796	3,552,768	232,449
17	782,936	1,454,976	2,400,000	286,972	1,426,824	3,310,656	163,800
18	1,004,192	1,739,088	2,400,000	251,972	1,388,496	3,146,784	165,228
19	783,328	1,796,112	2,760,000	285,152	1,388,952	3,138,432	166,803
20	728,840	1,731,816	2,760,000	272,636	1,494,000	2,959,488	218,022
21	601,888	1,458,576	2,760,000	339,808	1,574,268	3,574,464	203,490
22	476,560	967,680	1,704,000	401,716	2,476,692	3,481,536	281,274
23	392,056	1,025,712	1,704,000	415,212	2,397,360	3,764,832	301,623
24	531,664	1,004,040	1,704,000	400,680	2,346,732	3,775,584	300,951
25	463,176	1,005,840	1,704,000	408,772	2,421,384	3,764,736	282,660
26	419,328	954,216	1,560,000	363,944	2,062,044	3,492,576	275,331
27	434,056	938,448	1,560,000	339,892	2,013,828	3,367,008	256,935
28	463,512	1,020,384	1,560,000	360,304	2,063,520	3,471,456	253,575
29	463,512	1,149,408	1,560,000	371,504	2,033,316	3,365,376	226,506
30	435,064	1,100,952	1,560,000	377,664	2,281,092	3,502,656	262,941
Total	18,786,320	40,369,680	67,206,000	9,832,648	55,427,304	100,443,648	6,651,561